

Amendments to the Claims:

This listing of claims will replace all prior versions of claims in the application:

1. (Previously Presented) A coating composition for an ink jet recording medium comprising a synthetic resin emulsion having emulsion particles with a particle diameter of 100 nm or less and colloidal silica, wherein said synthetic resin emulsion is produced by emulsion-polymerizing (B) an unsaturated monomer having silyl groups and (C) an unsaturated monomer having six-membered rings as side chains in the presence of (A) an emulsifier containing a radically polymerizable emulsifier having sulfonic acids and, optionally, (D) another radically polymerizable unsaturated monomer which is copolymerizable with (B) and (C):
2. (Currently amended) A coating composition for an ink jet recording medium as claimed in claim 1, wherein the synthetic resin emulsion, based on the nonvolatile content of the synthetic resin emulsion ~~comprises~~ comprises 0.5 to 5.0% by weight of the radically polymerizable emulsifier having sulfonic acid groups contained in (A), 0.1 to 15% by weight of (B), 59 to 98% by weight of (C) and 0 to 39% by weight of (D).
3. (Previously Presented) A coating composition for an ink jet recording medium as claimed in claim 1, wherein (C) is at least one monomer selected from the group consisting of styrene, α -methylstyrene, cyclohexylacrylate and cyclohexylmethacrylate.
4. (Previously Presented) A coating composition for an ink jet recording medium as claimed in claim 1, wherein (D) is an alkyl (meth)acrylate or an unsaturated carboxylic acid.
5. (Previously Presented) A coating composition for an ink jet recording medium as claimed in claim 1, wherein the particle diameter of the emulsion particles of the synthetic resin emulsion is 80 nm or less.
6. (Previously Presented) A coating composition for an ink jet recording medium as claimed in claim 1, wherein the particle diameter of the colloidal silica is 100 nm or less.

7. (Previously Presented) A coating composition for an ink jet recording medium as claimed in claim 1, wherein the amount of colloidal silica incorporated is 10 to 900% by weight relative to the synthetic resin emulsion based on the nonvolatile content.

8. (Previously Presented) An ink jet recording medium comprising at least one ink fixation layer, a recording medium having at least one side and a coating composition for an ink jet recording medium as claimed in claim 1, wherein the at least one ink fixation layer includes a pigment, a binder and a cationic ink fixation agent, wherein the at least one ink fixation layer resides on the at least one side of the recording medium substrate, and wherein the coating composition for an ink jet recording medium resides on the at least one ink fixation layer.

9. (Previously Presented) An ink jet recording medium comprising a substrate having a pigment and a cationic fixation agent within the interior of the substrate, and a coating composition for an ink jet recording medium as claimed in claim 1 residing on the substrate.

10. (Previously Presented) A coating composition for an ink jet recording medium as claimed in claim 1, wherein the particle diameter of emulsion particles of the synthetic resin emulsion is 50 nm or less.

11. (Previously Presented) A coating composition for an ink jet recording medium as claimed in claim 1, wherein the particle diameter of the colloidal silica is 50 nm or less.

12. (Currently Amended) A method of making a synthetic resin emulsion comprising the step of emulsion-polymerizing (B) an unsaturated monomer having silyl groups and (C) an unsaturated monomer having six-membered rings as side chains in the presence of (A) an emulsifier containing a radically polymerizable emulsifier having sulfonic acids and, optionally, (D) another radically polymerizable unsaturated monomer which is copolymerizable with (B) and (C), wherein (C) is present in the synthetic resin emulsion in amounts of from 59 to 98 percent by weight based on the total nonvolatile content of the emulsion.

13. (Previously Presented) A coating composition for an ink jet recording medium comprising colloidal silica and a synthetic resin emulsion made in accordance with the method of claim 12.

14. (Previously Presented) A coating composition for an ink jet recording medium as claimed in claim 13, wherein the synthetic resin emulsion includes emulsion particles having a particle diameter of 100 nm or less.

15. (Previously Presented) A coating composition for an ink jet recording medium as claimed in claim 14, wherein the particle diameter of the emulsion particles is 50 nm or less.

16. (Previously Presented) A coating composition for an ink jet recording medium as claimed in claim 13, wherein the particle diameter of the colloidal silica is 100 nm or less.

17. (Previously Presented) A coating composition for an ink jet recording medium as claimed in claim 13, wherein the particle diameter of the colloidal silica is 50 nm or less.

18. (Previously Presented) A recording medium comprising a substrate and a coating composition for an ink jet recording medium as claimed in claim 13 residing on the substrate.

19. (Previously Presented) The recording medium as claimed in claim 18, wherein the substrate has at least one surface and at least one ink fixation layer residing on the surface, wherein the at least one ink fixation layer comprises a cationic ink fixation agent and a binder, and wherein the coating composition resides on the at least one fixation layer.

20. (Previously Presented) The recording medium as claimed in claim 18, wherein the substrate has an interior, wherein the interior includes a pigment and a cationic fixing agent.

21. (New) The coating composition of claim 1, wherein the emulsifier includes a styrene sulfonate.

22. (New) A coating composition for an ink jet recording medium comprising a synthetic resin emulsion having emulsion particles with a particle diameter of 100 nm or less and colloidal silica, wherein said synthetic resin emulsion is produced by emulsion-polymerizing (B) an unsaturated monomer having silyl groups and (C) an unsaturated monomer having six-membered rings as side chains in the presence of (A) a radically polymerizable emulsifier, optionally, (D) another radically polymerizable unsaturated monomer which is copolymerizable with (B) and (C), wherein the synthetic resin emulsion has from 59 to 98 percent by weight of (C) based on the nonvolatile content of the emulsion.